## Delaware Department of Transportation Division of Preconstruction Design Guidance Memorandum Office of Quality Assurance

Memorandum Number 1-2 1. Road Design Manual 2. Bridge Design Manual 3. Utilities Design Manual 4. Real Estate Manual 5. Standard Specifications 6. Standard Construction Details Title: Class C Pipe Bedding Effective date: Oct. 1, 2001 Sections to Implement: X Road, X Bridge, X PMT, X Design Support, X Specification, Utility, \_\_\_ Real Estate, X Quality Management, \_\_\_ Other\_\_ I. **Purpose:** To improve the quality of pipe bedding in storm drainage installations and to provide for uniformity of measurement and payment. II. **Design Guidance:** Class C bedding for pipe is changed to include an earth cushion of the type and configuration shown in the Standard Construction Details. For pipe under 24 inches in diameter the excavation and bedding is to be incidental to the pipe. For pipe sizes 24 inches and over the excavation and earth cushion shall be paid separately in accordance with Section 208, Excavation and Backfill for Pipe Trenches and Section 210, Furnishing of Borrow Type C. III. Justification: Premature failure of drainage pipe is of concern to the Department due to the expense to correct failures and the inconvenience to the public. Poor design and construction of Class C bedding may contribute to this phenomenon. Prepared By: \_\_Raymond D. Richter August 2, 2001 Date Reviewed By: Assistant Directors of Preconstruction Recommended By: /S/ Raymond D. Richter Sept. 12, 2001 Assistant Director of Preconstruction Date For Quality Assurance /S/ Chao H. Hu Sept. 17, 2001 Approved: Director of Preconstruction Date

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